C&K GP Series Sealed Ultraminiature Pushbutton Switches

es | es |

Features/Benefits

- Ultraminiature design saves space
- Process compatible, withstands most soldering and washing processes
- Thru-hole and surface mount models available
- Sealed construction—internal o-ring and epoxy base
- RoHS compliant

Typical Applications

- Telecommunications and network equipment
- Computers and peripheral products
- Instrumentation



Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max.

MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50 m Ω typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: $10^9\Omega$ min.

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

DEGREE OF PROTECTION: IP57; Protection against harmful dust deposit, full-scale voltage protection, temporary immersion.

PACKAGING: Surface mount switches standard in anti-static tape and reel packaging per EIA 481-3, see page A-78 for drawings and reel information.

All models are RoHS compliant and compliant.

Materials

HOUSING & BASE: Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Glass filled nylon 4/6, flame retardant (UL 94V-0) with standard internal o-ring seal.

SWITCH SUPPORT: Brass, tin plated.

MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate.

STATIONARY CONTACTS Copper alloy, with gold plate over nickel plate.

TERMINALS: Copper alloy, with gold flash over nickel plate. TERMINAL SEAL: Epoxy/Urethane. All terminals insert molded.

NOTE: Any models supplied with B contact material are RoHS compliant and compatible. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

NOTE: Materials listed above are general specifications. Specifications available for specific and custom switches, consult Customer Service Center.

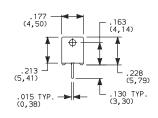
CAUTION: PC mounting layouts and pads as shown are designed to be compatible with the latest equipment and reflow techniques. Care should be taken in the design and location of PC lands to suit individual needs. Orientation relative to reflow direction may significantly impact solder joint integrity.

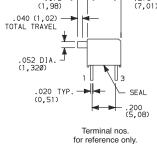
How To Order

Complete part numbers for GP Series Sealed Ultraminiature Pushbutton Switches are shown on pages A-76 thru A-78.

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	4	•	SCHEMATIC
GP11MCBE	OFF	MOM.	1 • • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MCBE	ON	MOM.	9 2 (COMM)
Conn. Terms.	2-1	2-3	NC 1 W 03 NO SPDT

MOM. = Momentary

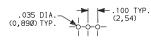






GP11MCBE SPST





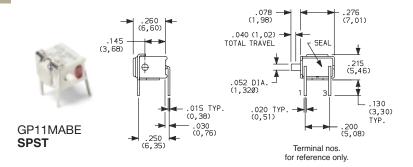
GP11- omit center hole.

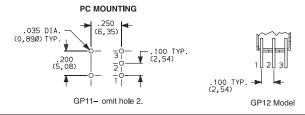


GP12 Model



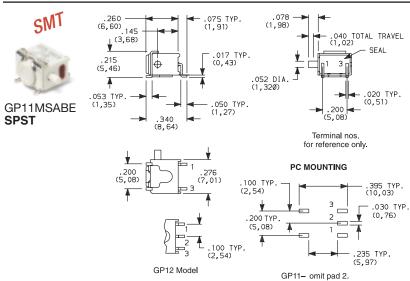
C&K GP Series Sealed Ultraminiature Pushbutton Switches





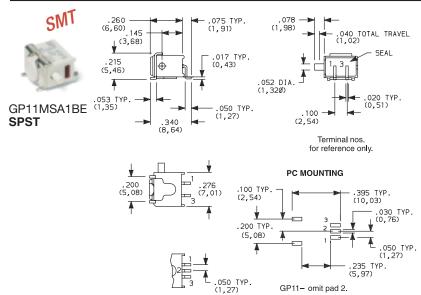
	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	1		SCHEMATIC
GP11MABE	OFF	MOM.	1 • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MABE	ON	мом.	2 (COMM) NC 1 • 3 NO
Conn. Terms.	2-1	2-3	SPDT

MOM. = Momentary



	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	1		SCHEMATIC
GP11MSABE	OFF	MOM.	1 • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MSABE	ON	мом.	2 (COMM) NC 1 • 3 NO
Conn. Terms.	2-1	2-3	SPDT

MOM. = Momentary



GP12 Model

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	4	4	SCHEMATIC
GP11MSA1BE	OFF	MOM.	1 • • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MSA1BE	ON	мом.	2 (COMM) NC 1 • 3 NO
Conn. Terms.	2-1	2-3	SPDT

MOM. = Momentary



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

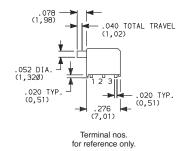


Sealed Ultraminiature Pushbutton Switches

C&K GP Series

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	1		SCHEMATIC
GP12MSCBE	ON	мом.	2 (COMM)
Conn. Terms.	2-1	2-3	NC 1 ● / ●3 N0 SPDT

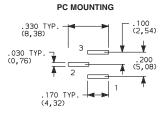


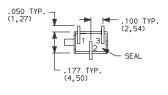




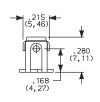
GP12MSCBE **SPDT**

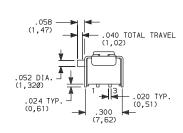
MOM. = Momentary





NOTE: Recommended for infrequent use applications only For increased switch mounting strength, order, SV1 termination style with support bracket (see below).



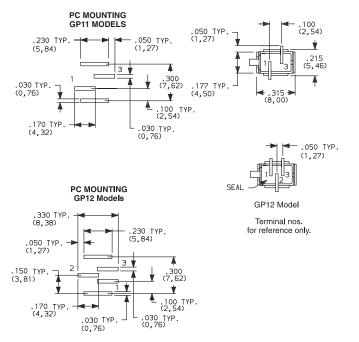




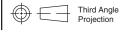
GP11MS\	/1BE
SPST	

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER	4		SCHEMATIC
GP11MSV1BE	OFF	MOM.	1 — 3
Conn. Terms.	OPEN	1-3	SPST
GP12MSV1BE	ON	мом.	2 (COMM) NC 1 3 NO
Conn. Terms.	2-1	2-3	SPDT

MOM. = Momentary







Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

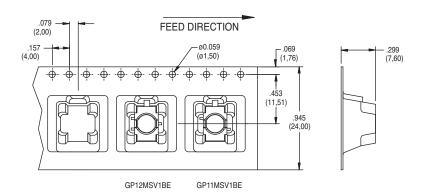


C&K GP Series Sealed Ultraminiature Pushbutton Switches

TAPE & REEL

For part numbers GP11MSV1BE, GP12MSV1BE

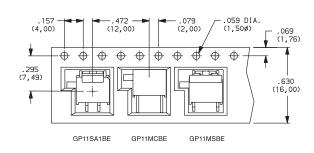
REEL INFORMATION		
OUTSIDE DIAMETER 13.00 (330,0)		
PILOT HOLE .512 (13,0)		
QUANTITY PER REEL 600		

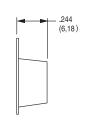


For part numbers GPXXSA1BE, GPXXMCBE, GPXXMSABE

FEED DIRECTION

REEL INFORMATION		
OUTSIDE DIAMETER 13.00 (330,0)		
PILOT HOLE .512 (13,0)		
QUANTITY PER REEL 600		





For part numbers GP12MSCBE

REEL INFORMATION		
OUTSIDE DIAMETER 13.00 (330,0)		
PILOT HOLE .512 (13,0)		
QUANTITY PER REEL 600		

